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To:

<aaron-n@ipsc.com>

Date:

7/31/02 6:43AM

Subject:

Conference Call July 31 at 9.00 a.m.

I confirm our follow up conference call at 9.00 am your time today.

I have prepared some information to help the discussions and I am presenting it in this e-mail to help you digest it before the meeting.

The design flow margin is 0%.

The manufacturing tolerances on design nominal guide blade throat ares are:

38 Higher Even

stage 1 stages 2 - 8 +2% to -0% +2% to -2%

nominal guide blade throat areas for Unit 2 are:

The measured throat areas on Unit 2 HP cylinder compared with design

stage 1 +0.61% stage 2 +0.15% stage 3 +0.19% stage 4 +0.51% stage 5 +0.42% stage 6 +0.57%

stage 5 +0.42% stage 6 +0.57% stage 7 +0.33% stage 8 +0.16%

- 4. We have calculated the effect of these variations in guide blade throat areas on cylinder flow capacity and an increase of 0.3% would be expected. In interpreting a 'rate of exchange' it should be realised that stage 1 throat area has the greatest effect on capacity and stage 8 the least.
- 5. Factors other than guide blade throat area will affect flow capacity. However, our experience shows that we expect to achieve the design flow capacity within a tolerance of +1% -0% including the effects of manufacturing variations.

Regards

Brian Whinray

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